

IN THE CLAIMS

1. (Previously Presented) A medical electrical lead, comprising:
 - an elongate lead body;
 - a conductive coil extending along a portion of the lead body;
 - a conductive wire or cable extending along a portion of the lead body; and
 - a conductive component coupling the coil to the wire or cable andincluding a first side, a second side opposing the first side, a first groove formed in the first side and a second groove formed in the second side;
 - wherein the first groove holds a portion of the wire or cable and the second groove holds a portion of the coil.
2. (Original) The lead of claim 1, wherein the second side includes a protruding surface in which the second groove is formed.
3. (Currently amended) The lead of claim 2, further comprising:
 - a lumen disposed within the lead body wherein
 - the wire or cable extends within a the lumen of the lead body;
 - the coil extends around an outer surface of the lead body; and
 - the first side of the conductive component is positioned within the lumen of the lead body and the protruding surface of the second side of the conductive component extends through the outer surface of the lead body.
4. (Original) The lead of claim 1, wherein the wire or cable includes a proximal portion and a distal portion, the proximal portion extending proximally from the portion held in the first groove and the distal portion extending distally from the portion held in the first groove.
5. (Original) The lead of claim 4, wherein the proximal and distal portions of the wire or cable each include an insulative outer layer.

6. (Currently amended) The lead of claim 1, wherein
the conductive component further includes a first side wall extending from the first side to the second side and a second side wall opposing the first side wall and extending from the first side to the second side; and
the portion of the wire or cable is ~~crimped~~ connected within the first groove by indentation of the first side wall and the second side wall.
7. (Currently amended) The lead of claim 1, wherein
the conductive component further includes a first side wall extending from the first side to the second side and a second side wall opposing the first side wall and extending from the first side to the second side; and
the portion of the wire or cable is ~~crimped~~ connected within the first groove by inward deformation of portions of the first side wall and the second side wall in proximity to the first side.
8. (Currently amended) The lead of claim 1, wherein the portion of the wire or cable is ~~welded~~ connected within the first groove.
9. (Cancelled)
10. (Cancelled)
11. (Original) The lead of claim 1, wherein the second groove includes a plurality of grooves.
12. (Previously presented) The lead of claim 11, wherein the portion of the coil includes a plurality of filars, each of which is held within a one of the plurality of grooves.

13. (Previously presented) The lead of claim 1, wherein another portion of the coil forms a defibrillation electrode.

14. (Original) The lead of claim 1, wherein the component is formed from a length of strip stock by a stamping process.

15. (Original) The lead of claim 1, wherein the component includes a grain orientation approximately perpendicular to the first groove.

16. (Original) The lead of claim 1, wherein the component is formed of a material comprising tantalum.

17. (Withdrawn) A method of assembling a medical electrical lead, comprising the steps of:

 positioning a portion of a conductive wire or cable in a first groove formed on a first side of a conductive component;

 inserting the conductive wire or cable and the conductive component into a lumen of a body of the lead such that a second groove, formed on a second side of the conductive component approximately perpendicular to the first groove, protrudes through an outer surface of a wall surrounding the lumen.

18. (Withdrawn) The method of claim 17, further comprising the step of stripping the portion of the conductive wire or cable of an outer insulative layer.

19. (Withdrawn) The method of claim 18, wherein the step of stripping is performed by means of laser ablation.

20. (Withdrawn) The method of claim 18, wherein the step of stripping is performed by means of cutting.

21. (Withdrawn) The method of claim 17, further comprising the step of welding to the conductive component the portion of the wire or cable within the groove.

22. (Withdrawn) The method of claim 17, further comprising the step of crimping the conductive component to hold the portion of the wire or cable within the groove.

23. (Withdrawn) The method of claim 22, wherein the step of crimping includes indenting a first side wall and a second side wall, the first side wall extending from the first side to the second side and the second side wall opposing the first side wall and extending from the first side to the second side.

24. (Withdrawn) The method of claim 22, wherein the step of crimping includes deforming inwardly portions of a first side wall and a second side wall in proximity to the first side, the first side wall extending from the first side to the second side and the second side wall opposing the first side wall and extending from the first side to the second side.

25. (Withdrawn) The method of claim 17, further comprising the step of positioning a portion of a filar of a conductive coil in the second groove of the conductive component.

26. (Withdrawn) The method of claim 25, further comprising the step of welding to the conductive component the portion of the filar of the conductive coil.

27. (Withdrawn) The method of claim 17, wherein the second groove includes a plurality of grooves and further comprising the step of positioning a portion of each of a plurality of filars of a conductive coil within a one of the plurality of grooves.

28. (Withdrawn) The method of claim 27, further comprising the step of welding to the conductive component the portion of each of the plurality of filars.

29. (Withdrawn) The method of claim 25, further comprising the step of crimping the conductive component to hold the portion of the filar of the conductive coil within the second groove.

30. (Previously presented) A component coupling a conductive wire or cable to a conductive coil of a medical electrical lead, comprising:

a first side including a first groove formed therein; and

a second side opposing the first side and including a second groove formed therein;

wherein the first groove is adapted to hold a portion of the conductive wire or cable and the second groove is adapted to hold a portion of the conductive coil.

31. (Previously presented) The component of claim 30, wherein the second side includes a protruding surface in which the second groove is formed.

32. (Currently amended) The component of claim 30, wherein the component is formed from a length of strip stock ~~by means of a stamping process~~.

33. (Original) The component of claim 30, further comprising a grain orientation approximately perpendicular to the first groove.

34. (Original) The component of claim 30, wherein the component is formed from a material comprising tantalum.

35. (Previously presented) The lead of claim 1, wherein the second groove extends approximately perpendicular to the first groove.

36. (Previously presented) The lead of claim 1, wherein the portion of the coil includes a plurality of filars.

37. (Previously presented) The lead of claim 36, wherein the plurality of filars are welded within the first groove.

38. (Previously presented) The lead of claim 12, wherein each of the plurality of filars is welded within a one of the plurality of grooves.

39. (Previously presented) The lead of claim 1, wherein the component is formed of a material comprising platinum.

40. (Previously presented) The lead of claim 1, wherein the component is formed of a material comprising stainless steel.

41. (Previously presented) The lead of claim 1, wherein the component is formed of a material comprising titanium.

42. (Previously presented) The lead of claim 1, wherein the first groove is formed by an EDM process.

43. (Previously presented) The component of claim 30, wherein the second groove extends approximately perpendicular to the first groove.

44. (Previously presented) The component of claim 30, wherein the second groove includes a plurality of grooves.

45. (Previously presented) The component of claim 30, wherein the component is formed of a material comprising platinum.

46. (Previously presented) The component of claim 30, wherein the component is formed of a material comprising stainless steel.

47. (Previously presented) The component of claim 30, wherein the component is formed of a material comprising titanium.

48. (Previously presented) The component of claim 30, wherein the first groove is formed by an EDM process.

49. (New) medical electrical lead of claim 1 wherein the first groove includes a first longitudinal opening.

50. (New) medical electrical lead of claim 1 wherein the second groove includes a second longitudinal opening.